

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/601084  
Source: IFNU  
Date Processed by STIC: 5/6/5

***ENTERED***



IFWO

**RAW SEQUENCE LISTING** DATE: 05/06/2005  
**PATENT APPLICATION:** US/10/601,084 TIME: 08:48:49

Input Set : A:\P54997us.txt  
Output Set: N:\CRF4\05062005\J601084.raw

3 <110> APPLICANT: Universiteit Leiden  
4 Stichting Binair Vector Systeem  
5 Hooykaas, Paul J.J.  
6 Attikum van, Haico  
7 Bundock, Paul  
9 <120> TITLE OF INVENTION: Nucleic acid integration in eukaryotes  
11 <130> FILE REFERENCE: P54997CA00  
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/601,084 P.6  
14 <141> CURRENT FILING DATE: 2003-06-20  
16 <150> PRIOR APPLICATION NUMBER: EP 00204693.6  
17 <151> PRIOR FILING DATE: 2000-12-22  
19 <150> PRIOR APPLICATION NUMBER: PCT/NL01/00936  
20 <151> PRIOR FILING DATE: 2001-12-21  
22 <160> NUMBER OF SEQ ID NOS: 37  
24 <170> SOFTWARE: PatentIn Ver. 2.1  
26 <210> SEQ ID NO: 1  
27 <211> LENGTH: 18  
28 <212> TYPE: DNA  
29 <213> ORGANISM: Artificial Sequence  
31 <220> FEATURE:  
32 <223> OTHER INFORMATION: Description of Artificial Sequence: primer hdf1p1  
34 <220> FEATURE:  
35 <221> NAME/KEY: misc\_feature  
36 <222> LOCATION: (1)..(18)  
38 <400> SEQUENCE: 1  
39 ggatttgctt taaggttag 18  
42 <210> SEQ ID NO: 2  
43 <211> LENGTH: 18  
44 <212> TYPE: DNA  
45 <213> ORGANISM: Artificial Sequence  
47 <220> FEATURE:  
48 <221> NAME/KEY: misc\_feature  
49 <222> LOCATION: (1)..(18)  
51 <220> FEATURE:  
52 <223> OTHER INFORMATION: Description of Artificial Sequence: primer hdf1p2  
54 <400> SEQUENCE: 2  
55 caaataccct accctacc 18  
58 <210> SEQ ID NO: 3  
59 <211> LENGTH: 21  
60 <212> TYPE: DNA  
61 <213> ORGANISM: Artificial Sequence  
63 <220> FEATURE:  
64 <223> OTHER INFORMATION: Description of Artificial Sequence: primer dn14p1

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66 <220> FEATURE:  
67 <221> NAME/KEY: misc\_feature  
68 <222> LOCATION: (1)..(21)  
70 <400> SEQUENCE: 3  
71 cgttaagattc gccgagtata g 21  
74 <210> SEQ ID NO: 4  
75 <211> LENGTH: 21  
76 <212> TYPE: DNA  
77 <213> ORGANISM: Artificial Sequence  
79 <220> FEATURE:  
80 <223> OTHER INFORMATION: Description of Artificial Sequence: primer dnl4p2  
82 <400> SEQUENCE: 4  
83 cgtttcaaat gggaccacag c 21  
86 <210> SEQ ID NO: 5  
87 <211> LENGTH: 19  
88 <212> TYPE: DNA  
89 <213> ORGANISM: Artificial Sequence  
91 <220> FEATURE:  
92 <223> OTHER INFORMATION: Description of Artificial Sequence: primer kanmxpl  
94 <220> FEATURE:  
95 <221> NAME/KEY: misc\_feature  
96 <222> LOCATION: (1)..(19)  
98 <400> SEQUENCE: 5  
99 agactcacgt ttcgaggcc 19  
102 <210> SEQ ID NO: 6  
103 <211> LENGTH: 20  
104 <212> TYPE: DNA  
105 <213> ORGANISM: Artificial Sequence  
107 <220> FEATURE:  
108 <223> OTHER INFORMATION: Description of Artificial Sequence: primer kanmxp2  
110 <220> FEATURE:  
111 <221> NAME/KEY: misc\_feature  
112 <222> LOCATION: (1)..(20)  
114 <400> SEQUENCE: 6  
115 tcaccgaggc agttccatag 20  
118 <210> SEQ ID NO: 7  
119 <211> LENGTH: 22  
120 <212> TYPE: DNA  
121 <213> ORGANISM: Artificial Sequence  
123 <220> FEATURE:  
124 <223> OTHER INFORMATION: Description of Artificial Sequence: primer kanmxp3  
126 <220> FEATURE:  
127 <221> NAME/KEY: misc\_feature  
128 <222> LOCATION: (1)..(22)  
130 <400> SEQUENCE: 7  
131 tcgcaggtct gcagcgagga gc 22  
134 <210> SEQ ID NO: 8  
135 <211> LENGTH: 23  
136 <212> TYPE: DNA

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/601,084

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Input Set : A:\P54997us.txt

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137 <213> ORGANISM: Artificial Sequence  
 139 <220> FEATURE:  
 140 <223> OTHER INFORMATION: Description of Artificial Sequence: primer kanmxp4  
 142 <220> FEATURE:  
 143 <221> NAME/KEY: misc\_feature  
 144 <222> LOCATION: (1)..(23)  
 146 <400> SEQUENCE: 8  
 147 tcgcctcgac atcatctgcc cag 23  
 150 <210> SEQ ID NO: 9  
 151 <211> LENGTH: 22  
 152 <212> TYPE: DNA  
 153 <213> ORGANISM: Artificial Sequence  
 155 <220> FEATURE:  
 156 <223> OTHER INFORMATION: Description of Artificial Sequence: primer kanmxp5  
 158 <220> FEATURE:  
 159 <221> NAME/KEY: misc\_feature  
 160 <222> LOCATION: (1)..(22)  
 162 <400> SEQUENCE: 9  
 163 tcacatcatg cccctgagct gc 22  
 166 <210> SEQ ID NO: 10  
 167 <211> LENGTH: 31  
 168 <212> TYPE: DNA  
 169 <213> ORGANISM: Artificial Sequence  
 171 <220> FEATURE:  
 172 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR  
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 173 <220> FEATURE:  
 176 <221> NAME/KEY: misc\_feature  
 177 <222> LOCATION: (1)..(31)  
 178 <223> OTHER INFORMATION: /note="Wherein N stands for any nucleotide  
 179 sequence"  
 181 <400> SEQUENCE: 10  
 W--> 182 caggatatac tcaattgtaa atctcnccgag g 31  
 185 <210> SEQ ID NO: 11  
 186 <211> LENGTH: 37  
 187 <212> TYPE: DNA  
 188 <213> ORGANISM: Artificial Sequence  
 190 <220> FEATURE:  
 191 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR  
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 192 <220> FEATURE:  
 195 <221> NAME/KEY: misc\_feature  
 196 <222> LOCATION: (1)..(37)  
 197 <223> OTHER INFORMATION: /note="Wherein N stands for any nucleotide  
 198 sequence"  
 200 <400> SEQUENCE: 11  
 W--> 201 attgttattat atattcaatt gtaaaatctcn cgaggta 37  
 204 <210> SEQ ID NO: 12  
 205 <211> LENGTH: 33

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PATENT APPLICATION: US/10/601,084 TIME: 08:48:49

Input Set : A:\P54997us.txt  
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206 <212> TYPE: DNA  
207 <213> ORGANISM: Artificial Sequence  
209 <220> FEATURE:  
210 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR  
211 fragment derived from a junction sequence  
213 <220> FEATURE:  
214 <221> NAME/KEY: misc\_feature  
215 <222> LOCATION: (1)..(33)  
216 <223> OTHER INFORMATION: /note="Wherein N stands for any nucleotide  
217 sequence"  
219 <400> SEQUENCE: 12  
W--> 220 tgtgggtgt attcaattgt aatatctcncc agg 33  
223 <210> SEQ ID NO: 13  
224 <211> LENGTH: 35  
225 <212> TYPE: DNA  
226 <213> ORGANISM: Artificial Sequence  
228 <220> FEATURE:  
229 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR  
230 fragment derived from a junction sequence  
232 <220> FEATURE:  
233 <221> NAME/KEY: misc\_feature  
234 <222> LOCATION: (1)..(35)  
235 <223> OTHER INFORMATION: /note="Wherein N stands for any nucleotide  
236 sequence"  
238 <400> SEQUENCE: 13  
W--> 239 gggggcatca gtattcaattt gtaaaatctcn cgagg 35  
242 <210> SEQ ID NO: 14  
243 <211> LENGTH: 39  
244 <212> TYPE: DNA  
245 <213> ORGANISM: Artificial Sequence  
247 <220> FEATURE:  
248 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR  
249 fragment derived from a junction sequence  
251 <220> FEATURE:  
252 <221> NAME/KEY: misc\_feature  
253 <222> LOCATION: (1)..(39)  
255 <400> SEQUENCE: 14  
256 gaggttagtg tgagagagtg tgtgtgggtg tgaagtcga 39  
259 <210> SEQ ID NO: 15  
260 <211> LENGTH: 35  
261 <212> TYPE: DNA  
262 <213> ORGANISM: Artificial Sequence  
264 <220> FEATURE:  
265 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR  
266 fragment derived from a junction sequence  
268 <220> FEATURE:  
269 <221> NAME/KEY: misc\_feature  
270 <222> LOCATION: (1)..(35)  
271 <223> OTHER INFORMATION: /note="Wherein N stands for any nucleotide

RAW SEQUENCE LISTING DATE: 05/06/2005  
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Input Set : A:\P54997us.txt  
 Output Set: N:\CRF4\05062005\J601084.raw

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272      sequence"
274 <400> SEQUENCE: 15
W--> 275 tctggtagat atattcaatt gtaaatctcn cgagg          35
278 <210> SEQ ID NO: 16
279 <211> LENGTH: 35
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR
285     fragment derived from a junction sequence
287 <220> FEATURE:
288 <221> NAME/KEY: misc_feature
289 <222> LOCATION: (1)..(35)
290 <223> OTHER INFORMATION: /note="Wherein N stands for any nucleotide
291     sequence"
293 <400> SEQUENCE: 16
W--> 294 cacatatttc tcattcaatt gtaaatctcn cgagg          35
297 <210> SEQ ID NO: 17
298 <211> LENGTH: 35
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR
304     fragment derived from a junction sequence
306 <220> FEATURE:
307 <221> NAME/KEY: misc_feature
308 <222> LOCATION: (1)..(35)
309 <223> OTHER INFORMATION: /note="Wherein N stands for any nucleotide
310     sequence"
312 <400> SEQUENCE: 17
W--> 313 cgactactt atatccaatt gtaaatctcn cgagg          35
316 <210> SEQ ID NO: 18
317 <211> LENGTH: 35
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: part of a PCR
323     fragment derived from a junction sequence
325 <220> FEATURE:
326 <221> NAME/KEY: misc_feature
327 <222> LOCATION: (1)..(35)
328 <223> OTHER INFORMATION: note="Wherein N stands for any nucleotide
329     sequence"
331 <400> SEQUENCE: 18
W--> 332 gaagaaccca ttattcaatt gtaaatctcn cgagg          35
335 <210> SEQ ID NO: 19
336 <211> LENGTH: 35
337 <212> TYPE: DNA
338 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 05/06/2005  
PATENT APPLICATION: US/10/601,084                   TIME: 08:48:50

Input Set : A:\P54997us.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; N Pos. 26  
Seq#:11; N Pos. 30  
Seq#:12; N Pos. 28  
Seq#:13; N Pos. 30  
Seq#:15; N Pos. 30  
Seq#:16; N Pos. 30  
Seq#:17; N Pos. 30  
Seq#:18; N Pos. 30  
Seq#:19; N Pos. 30  
Seq#:20; N Pos. 30  
Seq#:21; N Pos. 30  
Seq#:22; N Pos. 30  
Seq#:25; Xaa Pos. 320

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/601,084

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TIME: 08:48:50

Input Set : A:\P54997us.txt  
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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:304